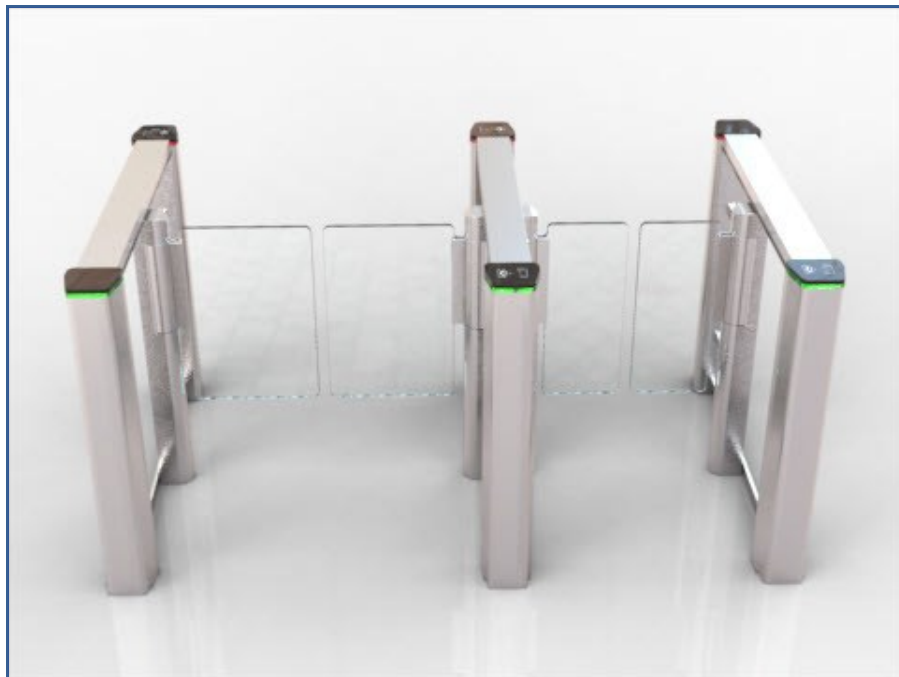




**EVOLVE** SECURITY PRODUCTS LIMITED

# PG150

Intelligent Entrance Gate



**SPARE PARTS**

**DRAFT 01 – NOT INTENDED FOR GENERAL RELEASE**

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The manual is subject to revision without prior notice.

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## 1. SAFETY NOTES.

- The service and maintenance technicians MUST adhere to these safety notes when replacing any spare part.
- Do not add unapproved parts or accessories.
- Any repair or maintenance work on the gates MUST be performed by manufacturer trained technicians. Any unauthorised intervention performed by a non-trained technician will automatically void the manufacturer's warranty.
- Access to the mechanism must only be carried out by manufacturer trained technicians that are fully aware of the electrical and mechanical risks involved with these gates.
- For any operation that does not require the gates to be powered, isolate the power at the distribution panel or at the local isolation switch.
- Any internal item likely to be energised or move must be handled with great care.
- Use of antistatic gloves or bracelets (Electrostatic Discharge) is essential when handling electronic printed circuit boards.
- The gates are configured in "minimum risk" mode for users. Any modification of parameters must be done knowingly by manufacturer trained technicians.
- The re-seller shall defend and indemnify EVOLVE SECURITY PRODUCTS from any claims which may be raised against EVOLVE SECURITY PRODUCTS due to the seller's failure to comply with the above obligations.

## 2. OVERVIEW

This spare parts manual should only be used by manufacturer trained technicians and in conjunction with the installation, field and programming manuals.

## 3. SPARE PARTS

Spare parts MUST only be fitted by manufacturer trained technicians and in compliance with the safety notes in this manual.

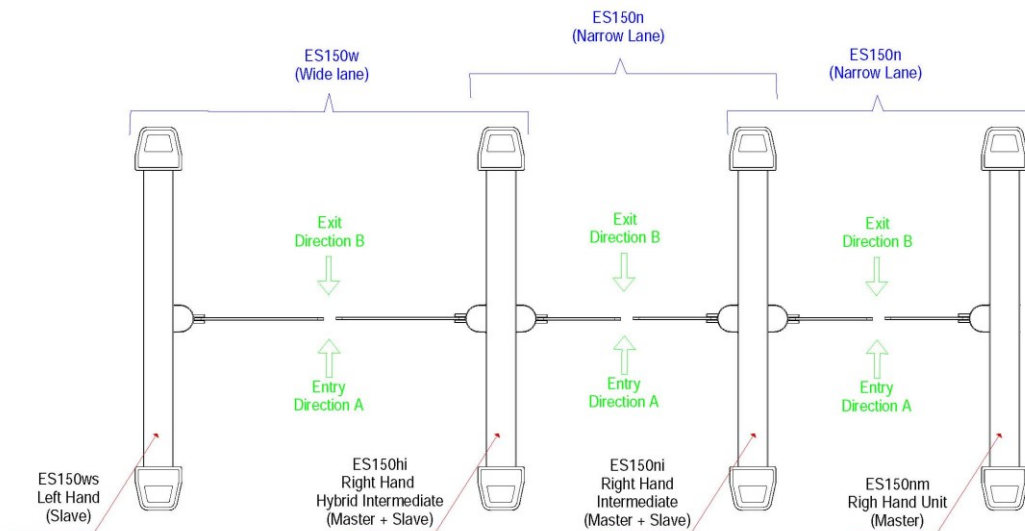
### 3.1 General Equipment Design

The gates can be installed singly or in a group. A lane consists of one left and a right-hand cabinet, each cabinet contains one half of the plexi-glass obstacle, which operate simultaneously.

To install a series of several lanes, all that is needed is to place one or more intermediate units between the left and right-hand cabinets. When different gate widths are required, hybrid intermediates cabinets can be used.

In a single lane installation, the left-hand cabinet is the slave unit and the right-hand cabinet the master. In a multi-lane installation, the far left-hand cabinet is the slave and the far right-hand cabinet the master with all the intermediate cabinets being both slave and master cabinets.

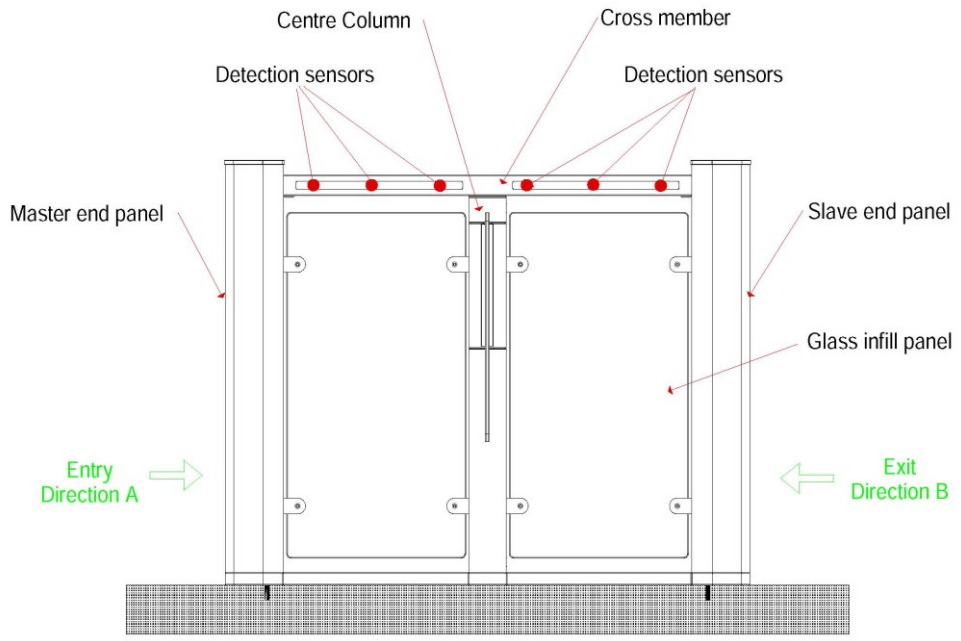
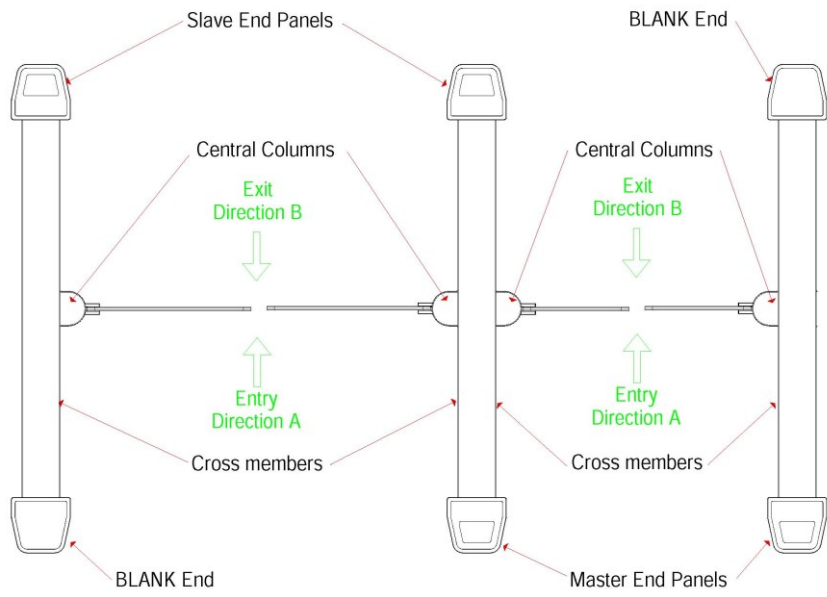
The normal direction of travel is direction 'A' for entry and direction 'B' for exit.





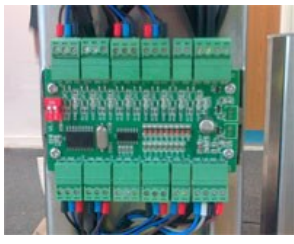

#### 4. LOCATION OF COMPONENTS

The PG150 is made up of: -

- A stainless-steel frame with two glass infill panel's,
- Two central columns which house the drive motors, encodes, status LED, and brakes.
- Removable end panels which house the main controller, isolation switch, power supply, sensor PCB's and functional pictograms.
- Two top cross members which house the transmit/receive detection sensors.



	<p>End Cover</p>	
	<p><u>Master End</u> Including: -</p> <ul style="list-style-type: none"> <li>• Functional pictogram</li> <li>• Photocell PCB</li> <li>• Main control unit</li> <li>• Sounder</li> <li>• Power supply</li> <li>• Isolation switch</li> </ul>	
	<p>Functional pictogram</p>	

		Photocell PCB	
		Main Controller	PG150-TD200
		Power Supply	
		Isolation Switch	
		<b><u>Slave End</u></b>	
		Photocell PCB	





**Central Column**  
 Including: -

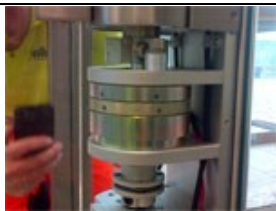
- Status LED's
- Encoder
- Electromagnetic brake
- Motor
- Motor Controller





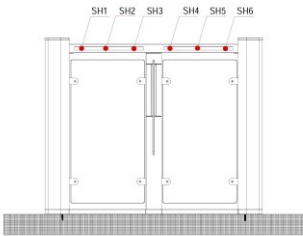
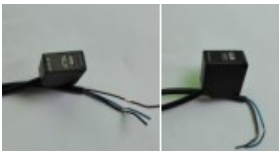
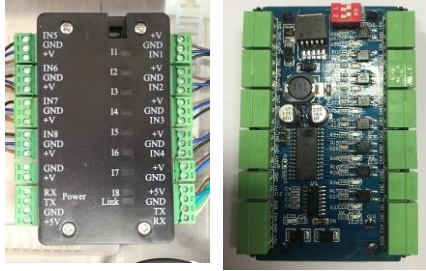
Status LED's



Encoder



Electromagnetic brake

	<p>Motor</p>	
	<p>Motor Controller</p>	<p>PG150-JX100</p>
	<p>Photocells' All cells are transmit and receive</p>	
	<p>Photocell Upgrade Kit 1.  16 Omron photocells. 2 sensor i/o cards.</p>	<p>C-000-0021-00</p>
	<p>Photocell Upgrade Kit 2.  20 Omron photocells. 2 sensor i/o cards.</p>	<p>C-000-0022-00</p>

	Photocell test attenuator 10 and 70 %	C-000-0023-00
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## 5. REFERENCES

### 5.1 Requirements owner

Paragraph Number	Owner
All	Andy Brown

### 5.2 History

Editions	Date	Changes	Author
00	05 November 2014	Converted from EVOLVE SECURITY PRODUCTS English	AB
01	25/06/2019	Add Photocell update kits	AB